

Date: Wed, 15 Jun 94 04:30:23 PDT
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V94 #162
To: Ham-Homebrew

Ham-Homebrew Digest Wed, 15 Jun 94 Volume 94 : Issue 162

Today's Topics:

(none)

40 Meter QRP CW transciever and 65 W computer power supply for sale
 Beware of RADIOKIT kits (IMHO)
 Boonton VHF Q meter help
 HP8052-3081 PIN diodes
 Ideas for 100Hz-100KHz HV xfmr?
 Instrumentation coaxial relays?
 Kits (2 msgs)
 Lowfer (1750) plans requested.....
 midnight engineering
 Old semiconductors (2 msgs)
 Packet modem ?
 Painting a 1.2GHz Antenna (2 msgs)
 Service Manual for a Tek 465M

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 14 Jun 94 15:12:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: (none)
To: ham-homebrew@ucsd.edu

David Fox
ihnp4.ucsd.edu!swrinde!cs.utexas.edu!news.unt.edu!news.oc.com!merlin.etsu.ed
u!t
talon@network.ucsd.edu Writes:

>Does anyone know where I can get plans for the Lowfer (1750) band. I am
>interested in both CW and Voice.

>

>Thanks,
>David Fox
>KB5ULK

Dave,

Send me your fax number (if you have one) or mail (post) address and
I'd be glad to send you a couple of articles on 1750 band.

Kevin

Legal stuff:

The above opinions are my own and not necessarily those of the staff,
faculty, administration, or lab animals (woof!) of The University of
Texas Health Science Center at San Antonio.

Kevin R. Muenzler, WB5RUE
muenzlerk@uthscsa.edu

The University of Texas Health
Science Center at San Antonio,
Department of Computing Resources

 ** There is no such thing as a Monkey-Proof Program! **
 ** I can prove it! **

Date: Tue, 14 Jun 1994 12:29:37 GMT
From: rit!isc-newsserver!ultb!bad1679@cs.rochester.edu
Subject: 40 Meter QRP CW transciever and 65 W computer power supply for sale
To: ham-homebrew@ucsd.edu

I am selling a homebrew 40 meter cw transciever. It covers 7.000-7.075
and about 7.100 - 7.175 mhz, puts out about 2 watts. The receiver is a
direct conversion type, but uses very good audio filtering.

The rig was based on the article in August 1980 issue of QST by W7EL and
improved with better double tuned band pass filter and a chebychev filter in
front of the audio preamp.

I am also selling a 65 Watt computer power supply (I believe it came out of an
XT).

Any inquiries, please email to bad1679@ultb.isc.rit.edu

Thanks..

Bernie Doehner nu1s/2

--

Electrical Engineering, Rochester Institute of Technology, Rochester, NY
Ax25 Packet: NU1S @ WB2PSI.#WNY.NY.USA.NOAM (normal packet route)
TCP/IP: nu1s@nu1s.ampr.org [44.69.0.37]
Internet (school): bad1679@ultb.isc.rit.edu

--

Electrical Engineering, Rochester Institute of Technology, Rochester, NY
Ax25 Packet: NU1S @ WB2PSI.#WNY.NY.USA.NOAM (normal packet route)
TCP/IP: nu1s@nu1s.ampr.org [44.69.0.37]
Internet (school): bad1679@ultb.isc.rit.edu

Date: 14 Jun 1994 17:40:45 GMT
From: butch!rapnet.sanders.lockheed.com!deacon.sanders.lockheed.com!
chappell@uunet.uu.net
Subject: Beware of RADIOKIT kits (IMHO)
To: ham-homebrew@ucsd.edu

In article <2tg8e9\$1k5@hobbes.cc.uga.edu> mcovingt@aisun1.ai.uga.edu (Michael Covington) writes:

>From: mcovingt@aisun1.ai.uga.edu (Michael Covington)
>Subject: Re: Beware of RADIOKIT kits (IMHO)
>Date: 13 Jun 1994 00:15:05 GMT

>That is unfortunate. Radiokit has been around for quite a few years;
>surely they wouldn't have lasted that long if that kind of performance
>were the norm.

>--

>< Michael A. Covington, Assc Rsch Scientist, Artificial Intelligence Center >
>< The University of Georgia, Athens, GA 30602-7415 USA mcovingt@ai.uga.edu >
>< Unless specifically indicated, I am not speaking for the University. > <><
>For information about any U.Ga. graduate program, email gradadm@uga.cc.uga.edu.

Not going to mention any callsigns or names but RadioKit was founded by a very nice couple who are well known in amateur circles in NE and all over. They no longer own it and the present owner does not seem to be interested in providing the level of service and quality that was originally there under the earlier mangement. In fact the previous owners are disappointed with how things are being presently handled. Thats all I will say except

this should be a wake-up call to the present owner.

Joel - KC1SG

===

```
|-----|
| Joel B. Chappell - KC1SG                Lockheed Sanders |
| Principal Engineer - Electrical          Nashua, NH 03061   |
|                                           |
|      -= Standard Disclaimer: All opinions are mine. -=    |
|                                           |
| E-Mail to: chappell@rapnet.sanders.lockheed.com            |
| or                                                         |
| Fido: 1:132/204.1                                          |
|-----|
```

Date: Tue, 14 Jun 94 22:41:29 EDT
From: anagld!wb3ffv!hambbs!Mike.Czuhajewski@uunet.uu.net
Subject: Boonton VHF Q meter help
To: ham-homebrew@ucsd.edu

I recently picked up an old Boonton model 190A Q meter. This is the VHF version, covering something like 20 to 260 MHz. Does anyone have any information on it? It seems to work OK, but operating instructions would still be helpful, even though it's easy enough to figure out for the most part. How about a schematic? That would be really appreciated!

Date: Tue, 14 Jun 1994 17:05:25 GMT
From: ihnp4.ucsd.edu!agate!darkstar.UCSC.EDU!nic.scruz.net!cruzio!
erics@network.ucsd.edu
Subject: HP8052-3081 PIN diodes
To: ham-homebrew@ucsd.edu

In article <2tje8v\$cqq@gerald0.cc.utexas.edu>, bsn@ziggy.ph.utexas.edu () writes:

>
> Can anyone suggest a source for small lot quantities of the above
> referenced PIN diode?
>
> Thanks,

I've found a couple of sources:

Newark electronics sells them individually for \$2.21 ea, 1.95 in 100's
call 1-800-298-3133 x48 for a catalog and info.

Penstock also has them, but only in lots of 100, for @2.00 ea
call 1-408-730-0300 They will also send you an HP catalog if you
ask.

I'm looking for the chip capacitor version of the 3081, called the HPND-0002.
Penstock has them, but again only in 100 lots - Anyone interested in getting
together on an order?

Eric, WA6HHQ erics@cruzio.com

Date: 14 Jun 1994 17:39:38 GMT
From: ihnp4.ucsd.edu!swrinde!gatech!concert!news.wfu.edu!ac!
matthews@network.ucsd.edu
Subject: Ideas for 100Hz-100KHz HV xfmr?
To: ham-homebrew@ucsd.edu

I need an audio (100 Hz -100 KHz) transformer with a secondary that
can go to around 1000 volts. Current is very low, less than 1 mA.

I'm actually using this to apply an alternating electric field to
a small crystal for an experiment I want to do.

Any ideas? Any suggestions for something off the shelf, or if not
what I should worry about in winding my own?

I might be able to get by using a different approach with a 400 volt
secondary.

Thanks for your help.

--
Rick Matthews matthews@wfunet.wfu.edu Ham radio:
Wake Forest University 910-759-5340 (Voice) WA4GSP
Winston-Salem, NC 27109-7507 910-759-6142 (FAX)

Date: Tue, 14 Jun 1994 22:50:18 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!darwin.sura.net!
fconvx.ncifcrf.gov!mack@network.ucsd.edu
Subject: Instrumentation coaxial relays?
To: ham-homebrew@ucsd.edu

In article <2tjhos\$ii7@nntpd.lkg.dec.com> little@iamu.chi.dec.com (Todd Little) writes:

>

>I'm building transverters for 903 MHz and 1296 MHz and wondering whether
>I can use some coaxial relays I picked up at a hamfest for use in T/R
>switching at low power.

The concerns you have are real enough, but the one you've forgotten is the isolation between the poles. If you have 30db isolation and you're running 10W, then 10mW will be coming into your receiver front end. I think that's near the limit for a FET (someone else may know better). If it's an instrumentation relay, it may only be good at HF. At 1Ghz it may have no isolation. Having a relay that's not resistive at 1Ghz will cause more problems than you'll ever want to know about even if it is 75ohms rather than 50ohms. Either buy one that's known to be OK, or measure the one you have on a network analyser.

Joe Mack NA3T
mack@ncifcrf.gov

Date: Wed, 15 Jun 1994 00:02:29 GMT
From: ihnp4.ucsd.edu!swrinde!sdd.hp.com!col.hp.com!news.dtc.hp.com!hplextra!
hpwrce!tonyz@network.ucsd.edu
Subject: Kits
To: ham-homebrew@ucsd.edu

In rec.radio.amateur.homebrew, mgalat@panix.com (Menachem Galatz DC) writes:

> Is there such a thing as a kit to build a tube receiver

Menachem, if you don't find one and want a good reference book for building your own tube receiver, let me know by email.

Finding the parts can be a real bear, especially if you cant get to a ham radio flea market or know old codger with an extensive junk box (and to think when I was a lad I had all that stuff too, tubes, sockets, coils, switches and air-variable caps by the truckloads!)

I just saw a book at Tower Record Bookstore that had to do with building tube radios...most of them I saw used dry cells for B+ and bias. Most of the circuits looked like low plate voltages..much safer believe me... I built a two-tube regenerative radio with 450VDC B+ when I was a kid... unfortunately, the headphones were in series with B+ and the cables were frayed...needless to say, I contacted the B+ at the ear and got knocked off my chair and landed about 6 feet away

on the floor. I have a real respect for that B+ jive! I forgot the title of the book, but I can get it for you, ok?

Glad to see you are interested in tubes....they sure bring back a lot of memories...

Tony WB6TRU

Date: Tue, 14 Jun 1994 22:47:11 GMT
From: rde!gator!tous!rjck!ocelot!stardust!kc4zvw@uunet.uu.net
Subject: Kits
To: ham-homebrew@ucsd.edu

In article <TROCH.94Jun12135608@gandalf.rutgers.edu>,
Rod Troch <troch@gandalf.Rutgers.EDU> wrote:

>Howdy,
>
>I am a new ham, waiting for my license. While I wait patiently for those
>12 weeks to pass I figured I would start building some things. One
>thing I would like to build is a CW practice oscillator.
>
>Do you have any simple instructions and parts list for such a job, or
>do you know of any place that sells such kits?

The ARRL book, "Tune in the World" and its replacement "Now your talking"?
has plans for a code-practice oscillator project in chapter 3.

73 de David

--
David Billsbrough
kc4zvw@stardust.oau.org

Date: Wed, 15 Jun 1994 03:52:11 GMT
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!usenet.ins.cwru.edu!
ns.mcs.kent.edu!kira.cc.uakron.edu!malgudi.oar.net!witch!ted!
mjsilva@network.ucsd.edu
Subject: Lowerfer (1750) plans requested.....
To: ham-homebrew@ucsd.edu

In article <1994Jun13.221112.14134@ra.oc.com>, David Fox (KB5ULK)
(talon@merlin.etsu.edu) writes:
>

>Does anyone know where I can get plans for the Lowfer (1750) band. I am
>interested in both CW and Voice.

>

QST had an article on Lowfers last October, and plans for a transceiver
(CW) this April.

73,
Mike, KK6GM

Date: Tue, 14 Jun 1994 23:52:22 GMT
From: ihnp4.ucsd.edu!usc!sdd.hp.com!col.hp.com!news.dtc.hp.com!hplextra!hpwrce!
tonyz@network.ucsd.edu
Subject: midnight engineering
To: ham-homebrew@ucsd.edu

I just went to Tower Record Bookstore here in Mountain View, Ca.
at lunch looking for Midnight Engineering Magazine. None to be
found. I hope they haven't packed their bags. The title itself
sort of makes you wonder if you should send away for a subscription
or keep buying off the shelf. The sure have some cool articles, though!

Date: 14 Jun 1994 17:21:53 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!europa.eng.gtefsd.com!
MathWorks.Com!yeshua.marcam.com!zip.eecs.umich.edu!umn.edu!newsdist.tc.umn.edu!
dawn.mmm.com!tcdsp1!tahir@network.ucsd.
Subject: Old semiconductors
To: ham-homebrew@ucsd.edu

Hi,
I hope this is an appropriate group for this subject.
I need a telephone number or address of some outfit that can supply obsolete
transistors and other semiconductor devices.
Please email directly.
Thanks.

--

* The opinions expressed are mine and do not reflect the views of*
* Twinix Systems Inc. or 3M. *

Date: 14 Jun 1994 18:53:04 GMT

From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!gatech!news-feed-1.peachnet.edu!
umn.edu!newsdist.tc.umn.edu!dawn.mmm.com!tcdsp1!tahir@network.ucsd.edu
Subject: Old semiconductors
To: ham-homebrew@ucsd.edu

I am looking for the following parts any info on supplier would be appreciated:

2N6782	X	80
2N6844	X	50
2N8844	X	30
2N5070	X	90
SD70A (SCR)	X	20
BFX34	X	60
BB109	X	60

--

* The opinions expressed are mine and do not reflect the views of*
* Twinix Systems Inc. or 3M. *

Date: 15 Jun 1994 07:03:03 GMT
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!EU.net!
news.forth.gr!helios.intranet.gr!phaethon!demetre@network.ucsd.edu
Subject: Packet modem ?
To: ham-homebrew@ucsd.edu

CQ Netters,

Does anyone have a scematic of a homebrewed packet modem that actually works ??
Please reply via e-mail...

73's

demetre@intranet.gr

Date: 14 Jun 1994 13:49:58 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!math.ohio-state.edu!
jussieu.fr!univ-lyon1.fr!elendir@network.ucsd.edu
Subject: Painting a 1.2GHz Antenna
To: ham-homebrew@ucsd.edu

John Reynolds (johnr@soul.tv.tek.com) wrote:

: Will a coat of paint degrade the performance of a 1.2Ghz antenna? I have a
: loop yagi from Downeast Microwave that I'd like to spray with some
: "camouflage" paint. Any info is appreciated.

The Tour Eiffel transponder 70 to 30 cm has a painted antenna... The painting has no metallic components, though. The machine works fine !!!

Vince, F1RCS.

Date: Wed, 15 Jun 1994 09:01:40 GMT

From: ihnp4.ucsd.edu!swrinde!pipex!uknet!bcc.ac.uk!news@network.ucsd.edu

Subject: Painting a 1.2GHz Antenna

To: ham-homebrew@ucsd.edu

In article hmm@news.tv.tek.com, johnr@soul.tv.tek.com (John Reynolds) writes:

>
> Will a coat of paint degrade the performance of a 1.2Ghz antenna? I have a
> loop yagi from Downeast Microwave that I'd like to spray with some
> "camouflage" paint. Any info is appreciated.
>
> Thanks,
>
> John Reynolds NZ7J
>
>

There is a conformal coating available from RS and Farnell in the UK. If you need exact type, mail me directly. Anyway, it is said to have good dielectric properties. To get the best from it, you need to bake at ~200 deg C for a couple of hours. I did intend using it to increase the working voltage of an air-spaced cap at 144MHz once. I must have been satisfied it would be okay at that frequency anyway. As a matter of interest, it is said to withstand an E field of 50kV/mm.

davek

Date: Tue, 14 Jun 94 16:14:06 CST

From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!iat.holonet.net!vulcan!

gary@network.ucsd.edu

Subject: Service Manual for a Tek 465M

To: ham-homebrew@ucsd.edu

Does anyone have a service manual for a Tektronix 465M 'scope ? If so, would they be willing to make a copy of it ? I would be happy to cover the costs. Please respond via email (gary@vulcan.com)

Thanks
Gary

Gary Tennyson
gary@vulcan.com

Date: Tue, 14 Jun 1994 20:00:40 GMT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!spool.mu.edu!
sol.ctr.columbia.edu!news.ess.harris.com!adm01.rfc.comm.harris.com!
gdian22@network.ucsd.edu
To: ham-homebrew@ucsd.edu

References <1994Jun12.122846.1@ccsua.ctstateu.edu>,
<2tg8e9\$1k5@hobbes.cc.uga.edu>, <chappell.20.0@rapnet.sanders.lockheed.com>om
Subject : Re: Beware of RADIOKIT kits (IMHO)

Hello All -

I can't speak about RadioKit kits, but I sent money for a catalog a year ago and never received it. From what was posted on the Internet back then, I wasn't the only one. I talked to the owner while at Dayton this year. I inquired about getting a catalog, so that I might be able to purchase some parts. Well, he said they were out. I asked how then might I order parts (read, how can I send you money, so that you might profit from it) and his reply was that maybe I could get together with someone in my area and use their catalog.

Enough said. I will only twist a person's arm so hard, in order for them to take my money for goods and/or services.

73, gary n2jgu
p.s. try dan's small parts and kits,
624 kits,
oak hills research,
mouser

I have ordered mucho stuff from all the above and have never felt cheated or ignored. In fact, dan's has the nn1g superhet on sale for \$40 (everything but case)... a good deal for someone with intermediate building skills.

End of Ham-Homebrew Digest V94 #162
